

Rejection Under 35 U.S.C. § 102

Claims 1-4 stand rejected under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 5,530,870 to De Bruler. The Examiner contends that De Bruler discloses all of the features recited in the claims. Applicants respectfully traverse the rejection.

De Bruler discloses an arrangement called PASS CONTROL which is used in combination with a conventional RETURN statement (De Bruler, Abstract). De Bruler discloses a compiler 111 substituting the last RETURN statement in a subprogram with a PATH CONTROL statement to effect a return from a whole series of subprogram invocations directly to the subprogram that initiated the series without intervening returns to the subprograms that made the intermediate invocation in the series (De Bruler, column 3, lines 24-29, column 10, lines 34-41, Abstract, and Figure 11). Furthermore, De Bruler discloses that compiler 111 performs the substitution during compilation of the subprogram 110 (De Bruler, column 10, lines 36-41).

Claim 1 recites “compiling source-codes of the first invoking function into an execution format; analyzing the execution format of the first invoking function obtained from compiled source-codes” and “judging if the first invoking function is tail recursive by determining if an execution result of the first function is an execution result of the first invoking function.” Thus, in the claimed invention, a traditional compiler can be used to compile the source code into an execution format (*e.g.*, byte code) (Specification, page 6, lines 11-17 and page 14, lines 6-14). When the byte code is executed, the byte code is analyzed for tail recursive conditions (Specification, page 15, lines 12-20). Then, a corresponding tail recursive statement is

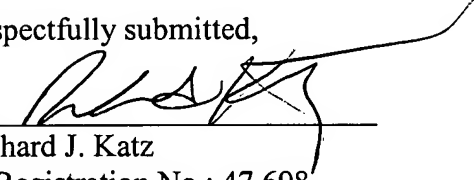
believed that claims 1-4 are in condition for allowance and it is respectfully requested that the application be reconsidered and that all pending claims be allowed and the case passed to issue.

If there are any other issues remaining which the Examiner believes could be resolved through a Supplemental Response or an Examiner's Amendment, the Examiner is respectfully requested to contact the undersigned at the telephone number indicated below.

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Respectfully submitted,

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